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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/802,628	03/17/2004	Tomio Satoh	172A 3550	4915	
3713 7	2590 06/23/2005		EXAMINER		
KODA & AN	<del></del> -	CHANG, JOSEPH			
2029 CENTURY PARK EAST SUITE 1140 LOS ANGELES, CA 90067			ART UNIT	PAPER NUMBER	
			2817		
			DATE MAILED: 06/23/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati	on No.	Applicant(s)					
	10/802,6	28	SATOH, TOMIO	(M)				
Office Action Summary	Examine		Art Unit					
	Joseph C		2817					
The MAILING DATE of this communic		_	1	ress				
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s) filed	on <u>17 March 2004</u>	•						
<u> </u>								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
<u>.</u>	lication							
4) Claim(s) 1-5 is/are pending in the application.								
4a) Of the above claim(s) <u>5</u> is/are withdrawn from consideration. 5)⊠ Claim(s) <u>1,3,4/1</u> is/are allowed.								
6)⊠ Claim(s) <u>7,3,4/7</u> is/are allowed. 6)⊠ Claim(s) <u>2,4/2</u> is/are rejected.								
7) Claim(s) 2,472 is/are rejected. 7) Claim(s) is/are objected to.								
8) Claim(s) is/are objected to. 8 Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>17 March 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
ine oath or declaration is objected to	by the Examiner. N	ote the attached Offic	e Action or form PTC	)-152.				
Priority under 35 U.S.C. § 119	•							
12)⊠ Acknowledgment is made of a claim fo	or foreian priority un	der 35 U.S.C. & 1196	a)-(d) or (f)					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)⊠ None of:								
1.⊠ Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the Internation	al Bureau (PCT Ru	le 17.2(a)).						
* See the attached detailed Office action	for a list of the cert	ified copies not receiv	red.					
Attachment(s)		_						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PT	O 049)	4) Interview Summar Paper No(s)/Mail [						
3) Information Disclosure Statement(s) (PTO-1449 or P			Patent Application (PTO-1	152)				
Paper No(s)/Mail Date	<b>-</b> ,	6) Other:		•				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Action Summa	ury P	art of Paper No./Mail Date	20050617				

#### **DETAILED ACTION**

#### **Drawings**

Figure 6 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

#### Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

## Claim Objections

Claim 5 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim 4. See MPEP § 608.01(n). Accordingly, the claim 5 has not been further treated on the merits.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2, 4/2 are rejected under 35 U.S.C. 102(b) as being anticipated by Satoh, US Patent No. 6,294,964.

Satoh discloses a piezoelectric oscillator (Figure 1) which comprises a piezoelectric vibrator (Y1) provided with a piezoelectric element (Y1) for excitation at a predetermined frequency, and a signal inverting amplifier (Tr) for supplying current to the piezoelectric element to excite it, characterized in that an output terminal (node of emitter of Tr) of the signal inverting amplifier (Tr) is grounded via a series connection (C3, C4) of a capacitance and a parallel tuning circuit (L1, Z); the connection point (node of C3 and C4) of the capacitance and the parallel tuning circuit (L1, Z) is connected to an input terminal (base of Tr) of the signal inverting amplifier via two series-connected capacitances (C1 and C2), and the connection point (node of C1 and C2) of series-connected capacitances is grounded via the piezoelectric vibrator (Y1, via C1) and a frequency adjusting element (Cv).

Regarding Claim 4/2, Figure 1 shows the connection point (node of C1 and C2) of the two series-connected capacitances, one (C1) of the two capacitances and the parallel tuning circuit (L1, Z) constitute a series resonance circuit.

### Allowable Subject Matter

Claims 1, 3, 4/1 are allowed.

**Art Unit: 2817** 

The following is a statement of reasons for the indication of allowable subject matter: the best prior art of record, Satoh, taken alone or in combination of other references, does not teach or fairly suggest a diode clamping circuit, as set forth in the claims.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nakamura and Fujii et al. show a similar structure of a VCO with a crystal as recited in the claim.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Chang whose telephone number is 571 272-1759. The examiner can normally be reached on Mon-Fri 0700-1730.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph Chang Patent Examiner Art Unit 2817.